

## **Section 9—Methods for Instruction Computer Science (NR)**

All Computer Science majors and minors seeking a **secondary** certification must successfully complete the following Education courses specific to their field.

EDU 469 Curriculum and Methods of Teaching in Secondary Schools I (2 semester hours).

EDU 471 Curriculum and Methods of Teaching in Secondary Schools II: Mathematics (3 semester hours). When a Computer Science candidate enrolls in the course, the syllabus and the course content are adjusted to accommodate the unique needs of the Computer Science candidate. The units and lessons completed by the Computer Science major must have well-articulated outcomes, appropriate instructional strategies, and relevant assessments consistent with the Standards and Benchmarks of Michigan Computer Science Education.

Secondary candidates are required to take EDU 478 or 578 Reading in the Content areas as well as the technology (EDU 459 or 600) and special education course (SED 460 or 560). EDU 478 focuses on the reading level of both textbook and the students and developing strategies to bridge the gap between the two. Computer Science majors, as do all other minors and majors, would focus on the materials and strategies for their academic area. Computer Science majors are expected to use their content knowledge to complete assignments that involve planning to teach computer skills to grades 7-12 students.

As explained in the Section 7 matrix, this practice of subject content being infused into Education courses is common to every course to some degree. Education faculty members expect their students to know and be able to demonstrate how to teach computer skills and content to K-12 students. *Course Descriptions and Syllabi for the above courses are located on the UDM Web site links.*

Secondary Education candidates must complete the appropriate Student Teaching course, EDU 490 Student Teaching in the Secondary Schools—8 semester hours in a 7-12 school.